

Serial Number: 101005, 211

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/10/005,211

TIME: 12:05:31

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12172001\J005211.raw

```

4 <110> APPLICANT: Allen, Keith D.
6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
7   POLYCYSTIN-RELATED GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-325
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/005,211
C--> 12 <141> CURRENT FILING DATE: 2001-12-04
12 <150> PRIOR APPLICATION NUMBER: US 60/256,201
13 <151> PRIOR FILING DATE: 2000-12-13
15 <150> PRIOR APPLICATION NUMBER: US 60/250,999
16 <151> PRIOR FILING DATE: 2000-12-04
18 <160> NUMBER OF SEQ ID NOS: 4
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2486
24 <212> TYPE: DNA
25 <213> ORGANISM: Mus musculus
27 <400> SEQUENCE: 1
28 ggcagaacgg gcatagtgga acggaccgtg tggatatgctc cgcgatgtct gaggcgactt 60
29 ggtggtaccg aggagggact tcaaaacatg acctgcatta cagaaggga gcgagggtta 120
30 acaccacact cgaggagttg ttactctatt ttattttctt aataaatcta tgcataattga 180
31 cttttgggat ggtcaatcca catatgtact atttaaaca agttatgtcg tctctgtttg 240
32 tggacacttc tctacctgat gatgaaagaa gcagctttag gtccattcgg agcataactg 300
33 agttttggaa gttcatggaa ggacccctca tcgacggctt gtactgggac tcgtgggtatg 360
34 gcaccaaaca gctgtacagt gtgaagaaca gcagccgcat ctactacgag aacgttcttc 420
35 tcggcatccc cagagtgcgg caactgcgag tccgaaacaa cacttgcaag gtctaccag 480
36 ctttccagtc cctggtcagc gactgctaca gcaagtacac agtggaaaac gaagacttct 540
37 ctgatttttg cctcaaacgc aatccagaat ggacgcacac gccttcttcc cgcactgccc 600
38 catggcactg ggggtttggt ggcgtatacc gagatggagg atatatagtc acgttatcaa 660
39 aatcaaaatc tgaaccaaa gccaaatttg ttgaccttcg actgaacaac tggattagca 720
40 gaggcaccag ggtgtttttt attgatttct ccctgtacaa tgctaattgc aacctgtttt 780
41 gcatcatcag gctgtcggca gagtctcctg cgacgggtgg gctcctcacc tcttggcagt 840
42 tctactctgt gaagctcctc agatacgtct cctactacga ctacttcatt gcctcctgtg 900
43 aagtcataat ttgtattttt ctctttgtct tcataataca agaactgagg aaagtgaacg 960
44 agttttaagtc tgctattttc agaagtgtct ggaactggct ggagatgctg ctctgtctgc 1020
45 tctgttttct cgccgtgtct ttctatgcat actgtaacat gcagagcttt ctcttgcttg 1080
46 gacagctgct gaaaaacact gacagctatc ccgactttta cttccttgca tactggcaca 1140
47 tttactataa caacgtaatt gctatcacta tcttctttgc atggataaag atattcaagt 1200
48 tcataagctt caatgagaca atgtcgcagc tgtcatcaac actctcccgc tgcataagg 1260
49 acatcgtggg gttcgccatc atgttcttca tcatcttctc tgcttatgcc cagttgggat 1320
50 ttctgttttt tgggtcacag gttgatgatt ttccaacttt tcaaaattcc atatttgac 1380
51 aatttcgaat tgtcctcggg gactttaact ttgctggcat ccagcaggcc aactggatct 1440
52 tggggcccat ctacttcacg acgttcatct tctttgtgtt ctttgtgctc ctgaacatgt 1500
53 tcttggcaat aattaatgac acctattctg aagttaaggc tgattattca ataggcagaa 1560
54 gaccagattt tgaacttggg aaaataattc aaaagagttg ctttaatgtt ctcgagaaac 1620
55 tcagactcaa gaaagctcaa gctaaagaag aaaagaaaat gcaaacact gacttggccc 1680
56 agagagccag aagagaaggc tttgatgaaa gtgagatcca agaggcagag cagatgaaaa 1740
57 gatggaagga aaggcttgaa aaaaagtatt attctacaga aattcaagac gattatcagc 1800

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/005,211

DATE: 12/17/2001

TIME: 12:05:31

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12172001\J005211.raw

```

58 ctgtcactca gcaagaattc cgagagctct ttttatacgc ggtggagctt gagaaggaat 1860
59 tacactatgt cagtttataa ctgaaccaac tgatgagaaa gctgcactag caggctgaca 1920
60 agtggagtca ttttataaga aaaggcaacc gaagaatttc attcagtagt aagatttttt 1980
61 cctctcaatt ttcttcagta atgcaaaaga aaaacaaaaa agtaaccaga agtgcttttt 2040
62 atttcaaagt tcttgaagta aaagagtaaa actcttgtec ttgctaaca gccgtgtctg 2100
63 cagtaaaaca atgaaggagc ctgctgtgtt cctaagtgtg gagaggatct gcgggaatgt 2160
64 ggaacagctt tcttgacctt ctggaaccac aaacaagcac acaatgggac tctctgagtg 2220
65 cctgacaaag tgaacgcaag tacagccaag cacacatggt gaactgtcag ggaacacaag 2280
66 cactttatgg cgtcaacttt caaggaacat attttatatg gattttgaag agtcttgttt 2340
67 gctgataaga acttcaagaa gtctaagctt ggctttgatt ctcttgattt ccttatattc 2400
68 ctcaagcacc ggaacacgat cctccttctg ggcattccta gggaagataa aactctgtaa 2460
69 agcaaaaaaa agaaaaaaa aaaaaa                                2486

```

71 <210> SEQ ID NO: 2

72 <211> LENGTH: 621

73 <212> TYPE: PRT

74 <213> ORGANISM: Mus musculus

76 <400> SEQUENCE: 2

```

77 Met Ser Glu Ala Thr Trp Trp Tyr Arg Gly Gly Thr Ser Lys His Asp
78 1 5 10 15
79 Leu His Tyr Arg Arg Glu Ala Glu Val Asn Thr Thr Leu Glu Glu Leu
80 20 25 30
81 Leu Leu Tyr Phe Ile Phe Leu Ile Asn Leu Cys Ile Leu Thr Phe Gly
82 35 40 45
83 Met Val Asn Pro His Met Tyr Tyr Leu Asn Lys Val Met Ser Ser Leu
84 50 55 60
85 Phe Val Asp Thr Ser Leu Pro Asp Asp Glu Arg Ser Ser Phe Arg Ser
86 65 70 75 80
87 Ile Arg Ser Ile Thr Glu Phe Trp Lys Phe Met Glu Gly Pro Leu Ile
88 85 90 95
89 Asp Gly Leu Tyr Trp Asp Ser Trp Tyr Gly Thr Lys Gln Leu Tyr Ser
90 100 105 110
91 Val Lys Asn Ser Ser Arg Ile Tyr Tyr Glu Asn Val Leu Leu Gly Ile
92 115 120 125
93 Pro Arg Val Arg Gln Leu Arg Val Arg Asn Asn Thr Cys Lys Val Tyr
94 130 135 140
95 Pro Ala Phe Gln Ser Leu Val Ser Asp Cys Tyr Ser Lys Tyr Thr Val
96 145 150 155 160
97 Glu Asn Glu Asp Phe Ser Asp Phe Gly Leu Lys Arg Asn Pro Glu Trp
98 165 170 175
99 Thr His Thr Pro Ser Ser Arg Thr Ala Pro Trp His Trp Gly Phe Val
100 180 185 190
101 Gly Val Tyr Arg Asp Gly Gly Tyr Ile Val Thr Leu Ser Lys Ser Lys
102 195 200 205
103 Ser Glu Thr Lys Ala Lys Phe Val Asp Leu Arg Leu Asn Asn Trp Ile
104 210 215 220
105 Ser Arg Gly Thr Arg Ala Val Phe Ile Asp Phe Ser Leu Tyr Asn Ala
106 225 230 235 240
107 Asn Val Asn Leu Phe Cys Ile Ile Arg Leu Leu Ala Glu Phe Pro Ala
108 245 250 255

```

RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/10/005,211

TIME: 12:05:31

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12172001\J005211.raw

```

109 Thr Gly Gly Leu Leu Thr Ser Trp Gln Phe Tyr Ser Val Lys Leu Leu
110      260      265      270
111 Arg Tyr Val Ser Tyr Tyr Asp Tyr Phe Ile Ala Ser Cys Glu Val Ile
112      275      280      285
113 Phe Cys Ile Phe Leu Phe Val Phe Ile Ile Gln Glu Leu Arg Lys Val
114      290      295      300
115 Asn Glu Phe Lys Ser Ala Tyr Phe Arg Ser Val Trp Asn Trp Leu Glu
116 305      310      315      320
117 Met Leu Leu Leu Leu Leu Cys Phe Leu Ala Val Ser Phe Tyr Ala Tyr
118      325      330      335
119 Cys Asn Met Gln Ser Phe Leu Leu Leu Gly Gln Leu Leu Lys Asn Thr
120      340      345      350
121 Asp Ser Tyr Pro Asp Phe Tyr Phe Leu Ala Tyr Trp His Ile Tyr Tyr
122      355      360      365
123 Asn Asn Val Ile Ala Ile Thr Ile Phe Phe Ala Trp Ile Lys Ile Phe
124      370      375      380
125 Lys Phe Ile Ser Phe Asn Glu Thr Met Ser Gln Leu Ser Ser Thr Leu
126 385      390      395      400
127 Ser Arg Cys Met Lys Asp Ile Val Gly Phe Ala Ile Met Phe Phe Ile
128      405      410      415
129 Ile Phe Ser Ala Tyr Ala Gln Leu Gly Phe Leu Val Phe Gly Ser Gln
130      420      425      430
131 Val Asp Asp Phe Ser Thr Phe Gln Asn Ser Ile Phe Ala Gln Phe Arg
132      435      440      445
133 Ile Val Leu Gly Asp Phe Asn Phe Ala Gly Ile Gln Gln Ala Asn Trp
134      450      455      460
135 Ile Leu Gly Pro Ile Tyr Phe Ile Thr Phe Ile Phe Phe Val Phe Phe
136 465      470      475      480
137 Val Leu Leu Asn Met Phe Leu Ala Ile Ile Asn Asp Thr Tyr Ser Glu
138      485      490      495
139 Val Lys Ala Asp Tyr Ser Ile Gly Arg Arg Pro Asp Phe Glu Leu Gly
140      500      505      510
141 Lys Ile Ile Gln Lys Ser Cys Phe Asn Val Leu Glu Lys Leu Arg Leu
142      515      520      525
143 Lys Lys Ala Gln Ala Lys Glu Glu Lys Lys Met Gln Thr Thr Asp Leu
144      530      535      540
145 Ala Gln Arg Ala Arg Arg Glu Gly Phe Asp Glu Ser Glu Ile Gln Glu
146 545      550      555      560
147 Ala Glu Gln Met Lys Arg Trp Lys Glu Arg Leu Glu Lys Lys Tyr Tyr
148      565      570      575
149 Ser Thr Glu Ile Gln Asp Asp Tyr Gln Pro Val Thr Gln Gln Glu Phe
150      580      585      590
151 Arg Glu Leu Phe Leu Tyr Ala Val Glu Leu Glu Lys Glu Leu His Tyr
152      595      600      605
153 Val Ser Leu Lys Leu Asn Gln Leu Met Arg Lys Leu His
154      610      615      620
157 <210> SEQ ID NO: 3
158 <211> LENGTH: 200
159 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/005,211

DATE: 12/17/2001

TIME: 12:05:31

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12172001\J005211.raw

160 <213> ORGANISM: Artificial Sequence

162 <220> FEATURE:

163 <223> OTHER INFORMATION: Targeting vector

165 <400> SEQUENCE: 3

```
166 catgcataca tgggtgcacg tgcgtgcgtg caaacaccca cacacagata gataaatgta 60
167 aaaaaatact taggcaatgc tgtttttttt aagcttggga aattaatatt tttgaacact 120
168 gctgatgtgg gattttaagt tacaaatgtt aaacttggtc tccttagtga cttttgggat 180
169 ggtcaatcca catatgtact                                     200
```

171 <210> SEQ ID NO: 4

172 <211> LENGTH: 200

173 <212> TYPE: DNA

174 <213> ORGANISM: Artificial Sequence

176 <220> FEATURE:

177 <223> OTHER INFORMATION: Targeting vector

179 <400> SEQUENCE: 4

```
180 gtatggcaac aaacagctgt acagtgtgaa gaacagcagc cgcattctact acgagaacgt 60
181 tcttctcggc atccccagag tgcggcaact gcgagtccga aacaacactt gcaagggtcta 120
182 cccagctttc cagtccttgg tcagcgactg ctacagcaag tacacagtgg aaaacgaaga 180
183 cttctctgat tttggcctca                                     200
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,211

DATE: 12/17/2001

TIME: 12:05:32

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\12172001\J005211.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date